

INTERNATIONAL SEARCH REPORT

International Application No	
PCT/EP2004/051542	

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E05B65/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 113 161 A (HUESSLER BERTHOLD ET AL) 5 September 2000 (2000-09-05) column 4, line 17 - line 38; figures 1-4 -----	1-4,6
A	US 3 666 305 A (SCHLICHTER WILLIAM L) 30 May 1972 (1972-05-30) column 5, line 11 - line 39; figures 5-7 -----	5
X	EP 0 534 076 A (TAKIGEN MFG CO) 31 March 1993 (1993-03-31) column 4, line 17 - line 25; figures 1-4 -----	1,2
A	US 4 203 621 A (NOEL JEAN P ET AL) 20 May 1980 (1980-05-20) column 5, line 26 - line 40; figures 1-4 -----	3
		1-4
		1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

^a Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the International search report

22 October 2004

29/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentiaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

PEREZ MENDEZ, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No	
PCT/EP2004/051542	

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6113161	A 05-09-2000	DE WO DE EP JP	19630246 A1 9804800 A1 59709023 D1 0914535 A1 2000515942 T	29-01-1998 05-02-1998 30-01-2003 12-05-1999 28-11-2000
US 3666305	A 30-05-1972	AU CA DE FR GB JP ZA	3360671 A 943574 A1 2149839 A1 2117045 A5 1337293 A 50029211 B 7105764 A	22-03-1973 12-03-1974 15-06-1972 21-07-1972 14-11-1973 22-09-1975 31-05-1972
EP 0534076	A 31-03-1993	JP JP EP KR US	2870611 B2 5086764 A 0534076 A1 135413 B1 5234238 A	17-03-1999 06-04-1993 31-03-1993 15-05-1998 10-08-1993
US 4203621	A 20-05-1980	FR FR AR BR CA DE ES GB IT JP JP JP MX SE SE	2402757 A1 2431589 A1 225406 A1 7805914 A 1109504 A1 2839070 A1 238034 Y 2003969 A ,B 1115555 B 1187493 C 54051127 A 58017875 B 147425 A 417992 B 7809401 A	06-04-1979 15-02-1980 31-03-1982 29-05-1979 22-09-1981 19-04-1979 16-03-1979 21-03-1979 03-02-1986 20-01-1984 21-04-1979 09-04-1983 02-12-1982 27-04-1981 13-03-1979